

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

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(1) (currently amended): A method for developing and performing a manufacturing project comprising the steps of:  
    providing a communication mechanism for a plurality of users associated with the manufacturing project to efficiently communicate with each other;

    providing a plurality of electronic concept proposal worksheet files, wherein each of the plurality of electronic concept worksheet proposal files defines a selected concept proposal, and wherein each of the concept proposals formed initially from a non-implemented preliminary concept used to develop at least one of a manufacturing technology, a process and a methodology;

    selectively communicating the plurality of electronic concept worksheet proposal files to a plurality of users of the communication mechanism;

    modifying the electronic concept worksheet proposal files;

    entering the modified electronic concept worksheet proposal files into a proposal database;

    using the proposal database to generate at least one complete project proposal;

    performing a manufacturing concept ready procedure, effective to verify that said certain technology is capable of manufacturing said desired product under simulated conditions;

    performing a manufacturing implementation procedure, effective to verify that said certain technology is functionally sound and meets certain quality and cost criteria;

developing a replication plan wherein the replication plan comprises the substeps of

- identifying a plurality of replication sites,
- developing a replication plan using the identified replication sites,
- developing a generic non-site specific workplan, and
- revising the generic non-site specific workplan to include unique requirements for each replication site;
- prioritizing replication sites in accordance with a confirmed replication plan; and
- performing a replication procedure in accordance with the confirmed replication plan.

(2) (original): The method of claim 1 further comprising the step of:

assembling a workforce for performing said project.

C1 (3) (original): The method of claim 2 further comprising the steps of:

providing orientation and communication processes for said workforce;

providing career development and training processes for said workforce; and

providing reward and recognition processes for said workforce, wherein the step of providing reward and recognition processes for said workforce further comprises

recognizing technical and non-technical contributions by the team, wherein said awards may be selected from at least one of technology awards, technical achievement awards, operational excellence awards, and patent incentive awards.

(4) (original): The method of claim 3 further comprising the step of:

performing a procedure to establish logistic metrics pertaining to project performance and budgeting.

(5) (original): The method of claim 4 further comprising the step of:

forming manufacturing technology committees; and convening said committees on a regular basis to define effective strategies to advance global manufacturing competitiveness.

C1 (6) (original): The method of Claim 5 wherein said project is related to the manufacture of an automotive vehicle.

(7) (withdrawn): A method for developing and performing a manufacturing project comprising the steps of:

establishing logistic metrics relating to project performance and budgeting;

executing said project in a plurality of phases;

performing a milestone review at the completion of each of said plurality of phases, said milestone review being effective to insure that affected parties are informed of certain project issues; and

maintaining a project timing plan including said logistic metrics and said milestone reviews.

(8) (withdrawn): The method of claim 7 wherein plurality of phases comprises a concept proposal phase.

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(9) (withdrawn): The method of claim 8 wherein plurality of phases further comprises a concept feasibility phase.

(10) (withdrawn): The method of claim 9 wherein plurality of phases further comprises a manufacturing concept ready phase.

(11) (withdrawn): The method of claim 10 wherein plurality of phases further comprises a manufacturing implementation ready phase.

C1 (12) (withdrawn): The method of claim 11 wherein plurality of phases comprises a replication phase.

(13) (withdrawn): A method for developing and performing a manufacturing project comprising the steps of:

providing a concept proposal based upon at least one customer need;

demonstrating that a technology is capable of providing said customer need through a certain process;

verifying that said certain process is capable of providing said at least one customer need under simulated conditions expected during a production application, while meeting certain cost and timing requirements;

verifying and demonstrating that said technology is functionally sound and has a certain quality value and cost value; and

implementing multiple applications of said technology in manufacturing operations.

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(14) (withdrawn): The method of claim 13 further comprising the step of performing a milestone review meeting to insure that affected parties are informed certain project issues after each step.

(15) (withdrawn): The method of claim 13 wherein said review of technology includes identifying a best in class technology and a state-of-the-art technology.

(16) (withdrawn): The method of claim 15 further comprising the step of:

convening committees on a regular basis to assess best in class technologies and state-of-the-art technologies.

C1 (17) (withdrawn): The method of claim 16 further comprising the step of:

establishing logistic metrics relating to project performance and budgeting by manufacturing wants.

(18) (withdrawn): The method of claim 17 further comprising the step of:

conducting time and data management meetings.

(19) (withdrawn): The method claim 18 further comprising the steps of:

closing said project only if customer concurrence has been received or if said project has been terminated.

(20) (withdrawn): The method of claim 19 wherein said manufacturing project relates to the production of an automotive vehicle

(21) (currently amended): A method for developing and performing a manufacturing project comprising the steps of:  
providing a communication mechanism for a plurality of users associated with the manufacturing project to efficiently communicate with each other;

providing a plurality of concept proposals, wherein each of the concept proposals formed initially from a non-implemented preliminary concept used to develop at least one of a manufacturing technology, a process and a methodology;

providing a plurality of electronic concept proposal worksheet files, wherein each of the plurality of electronic concept worksheet proposal files defines a selected concept proposal;

C | selectively communicating the plurality of electronic concept worksheet proposal files to a plurality of users of the communication mechanism;

modifying the electronic concept worksheet proposal files;

entering the modified electronic concept worksheet proposal files into a proposal database;

using the proposal database to generate at least one complete project proposal; and

implementing multiple applications of said technology in manufacturing operations by performing the substeps of

identifying a plurality of replication sites,  
developing a replication plan using the identified replication sites,

developing a generic non-site specific workplan;  
revising the generic non-site specific workplan to include unique requirements for each replication site,

confirming a replication plan,  
prioritizing replication sites in accordance with a confirmed replication plan, and

performing a replication procedure in accordance  
with the confirmed replication plan.

Claim (22) (previously added): The method of claim 21  
further comprising the step of performing a milestone review  
meeting to insure that certain project issues have been  
accomplished after each step.

Claim (23) (currently amended): The method of claim 21  
~~wherein said~~ further comprising the step of:

~~review of~~ reviewing technology, wherein said step of  
reviewing technology includes the substeps of  
identifying a best in class technology, and  
identifying a state-of-the-art technology.

C1 Claim (24) (previously presented): The method of claim 23  
further comprising the step of:

convening committees on a regular basis to assess best in  
class technologies and state-of-the-art technologies.

Claim (25) (previously presented): The method of claim 24  
further comprising the step of:

establishing logistic metrics relating to project  
performance and budgeting by manufacturing wants.

Claim (26) (previously presented): The method of claim 25  
further comprising the step of:

conducting time and data management meetings.

Claim (27) (previously presented): The method of claim 26  
wherein said manufacturing project relates to the production  
of an automotive vehicle.

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Claim(28) (previously presented): The method of claim 1, wherein the substep of developing a replication plan using the identified replication site further comprises the steps of:

- recommending the sequence of replicating within the identified replication sites;
- describing unique local requirements for each identified replication site; and
- establishing an issues deck to document new data that would be useful for replication planning.

(29) (currently amended): The method of claim 1, wherein the substep of developing a replication plan using the identified replication sites further comprises the steps of:

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- establishing a replication team consisting of key technology developers and representatives from each of the replication sites, said replication team being led by an appropriate operating activity within an advanced manufacturing technology development (AMTD) department, wherein a plurality of AMTD department's roles and responsibilities are defined on a case by case basis;

- reviewing pilot application with potential replication customers;

- developing a generic non-site specific workplan;

- revising the generic non-site specific workplan to include unique requirements for each replication site; estimating human resources and skills required to replicate technology;

- developing directional estimates of other resources required for replication; and

- agreeing on roles and responsibilities between operations and manufacturing departments including project closure requirements.



(30) (previously presented): The method of claim 1, further comprising the step of confirming a replication plan, wherein the step of confirming a replication plan further comprises the steps of:

confirming a business case, conditions and economic constraints;

calculating a proposed project's plan tryout "time adjusted rate of return" ("TARR");

comparing the TARR to the manufacturer's TARR requirements;

confirming effect of local requirements at each proposed replication site;

identifying any economic constraints;

estimating the effects of identified economic constraints upon the proposed replication plan; and

summarizing the business case in terms of investment and total expected savings by a cost labor category and a materials category.

(31) (previously presented): The method of claim 1, wherein the step of prioritizing replication sites in accordance with a confirmed replication plan further comprises the step of:

developing a prioritized listing of replication sites using business conditions, cycle plans, and available vendor resources.

(32) (previously presented): The method of claim 1, wherein the step of modifying the electronic concept worksheet proposal files further comprises the steps of :

finalizing project workplan information; and

refining estimate information for required resources and project benefits.

C1 (33) (previously presented): The method of claim 1, wherein the step of using the proposal database to generate at least one complete project proposal further comprises the step of:

submitting the modified electronic concept worksheet proposal files to an activity coordinator; and  
comparing the modified electronic concept worksheet proposal files with timing rules, guidelines, and standards to ensure that the modified electronic concept worksheet proposal files meet associated timing rules, guidelines, and standards.

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(34) (newly added): The method of claim 1 further comprising the steps of:

determining a plurality of potential failure modes of said replication plan, wherein the step of determining includes documenting said failure mode analysis;

C2 determining a corresponding plurality of safeguards needed for protection against each of said plurality of potential failure modes for said replication plan; and

developing a plurality of production procedures to adjust to each of said plurality of potential failure modes.

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